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WayneForm MR-REV-att (DOGM – Revise/Amend Change Form)  
(Revised September 14, 2005)

DIV. OF OIL, GAS &amp; MINING

## Application for Mineral Mine Plan Revision or Amendment

Operator: Geneva Rock Products, Inc.

Mine Name: N. Grantsville Quarry

File Number: M/ 045 /0077

Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. **Include page, section and drawing numbers as part of the description.**

## DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page 7 R647-4-104, Operator, Surface and Mineral Owners
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page 8 R647-4-104, Operator, Surface and Mineral Owners
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page 11, Mining Operation & Crushing Operation
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page 33, Surface Facilities to be left
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Pages 35 & 36 R647-4-113 Surety
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
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I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.

Brent R. Sumsion

Print Name

Sign Name, Position

Date

Feb. 29 2016

## Return to:

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
Phone: (801) 538-5291 Fax: (801) 359-3940

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## FOR DOGM USE ONLY:

File #: M/ /

Approved: \_\_\_\_\_

Bond Adjustment: from (\$) \_\_\_\_\_  
to \$ \_\_\_\_\_



112. Variance

113. Surety

<b><i>R647-4-104. Operator, Surface and Mineral Owners</i></b>
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- |  |   |
|--|---|
| 1. Mine Name:                                      | N. Grantsville Quarry   |
| 2. Operator:                                       | Geneva Rock Products, Inc.<br>1565 West 400 North<br>Orem, Utah 84057<br><br>Phone: 801-765-7800<br>Fax: 801-765-7830<br>Email: <a href="http://www.genevarock.com/">http://www.genevarock.com/</a> |
| Type of Business:                                  | Corporation   |
| Utah Business Entity No.:                          | 570716-0412   |
| Local Business License No.:                        | 2008088   |
| Issued by:   | Tooele, City  |
| Registered Utah Agent:                             | James D. Golding<br>P.O. Box 1955<br>Orem, UT 84059<br>Phone: 801-802-6900<br>Fax: 801-802-6933<br>Email: <a href="mailto:jgolding@genevarock.com">jgolding@genevarock.com</a>                      |
| 3. Permanent Address:                              | Geneva Rock Products, Inc.<br>730 N. 1500 W.<br>Orem, UT 84057<br>Phone: 801-802-6900<br>Fax: 801-802-6933<br>Email: <a href="http://www.genevarock.com/">http://www.genevarock.com/</a>            |
| 4. Contact Person for Permitting, Surety, Notices: | Brent R. Sumsion<br>Geneva Rock Products, Inc.<br>P.O. Box 1955   |



- Orem, Utah 84059  
Phone: 801-802-6900  
Fax: 801-802-6933  
Email: bsumsion@clydeinc.com
5. Location of Operation: Portions of S.16,17,19 & 20, T2S, R6W, SLBM
6. Ownership of Land Surface: Geneva Rock Products, Inc.  
730 N. 1500 W.  
Orem, UT 84057
7. Owners of Record of Mineral to be Mined:  
Geneva Rock Products  
730 N. 1500 W.  
Orem, Utah 84057
8. BLM Lease or Project File Numbers:  
None
9. Adjacent Land Owners: Utah Portland Quarries, Inc  
C/O Buzzi Unicem  
100 Broadhead Road  
Bethlehem, Pennsylvania 18017-8989
- Jay A. Anderson  
799 N. 600 W.  
Grantsville, Utah 84029-9366
- U.S.D.I. Bureau of Land Management  
2370 S. 2300 W.  
Salt Lake City, UT 84119  
(801) 977-4300
- Grantsville, LLC.  
944 E. 800 S.  
Bountiful, UT 84010



Geneva Rock Products, Inc. (Geneva) primarily extracts aggregate rock for use as road base, landscape rock, and other construction products. The projected future use of the aggregate will also include asphalt production.

## **Mining Operation**

Geneva will remove rock from the active mine area by drilling, blasting, and dozing methods. New disturbance occurs at the top and sides of the hill slope. The hill slope will be developed in phases, shown in order of development on **Figure 4a**. Each numbered area contains enough material to last for roughly 10 to 15 years. Mining may extend into the proceeding area prior to completely mining out the previous area in order to maximize safety, rock quality, and production needs. All haul roads will be confined within the disturbance boundaries or upon the Little Mountain Road which is maintained by Tooele County.

Rock is removed by drilling and blasting to release a “lift” of rock approximately 50 feet deep and up to two acres in size. Extraction of this loosened rock occurs by sequentially working downward through the exposed rock. When all blasted rock is removed from the first lift, another blast is set to free this lower lift of rock for removal and processing. Rock is removed from the working face or feed zone; with a loader and either placed in dump trucks or transported directly to the processing area where the rock is separated and adjusted to specific sizes for further processing. The facility is a crushing and sizing operation. Sizing for the final product is determined by specifications provided by customers.

## **Crushing Operation**

Once the rock is removed from the working face, the material is brought a short distance to the “jaw crusher” by a front-end-loader where it is broken down to 6-8” for initial sizing. The crushed rock is moved by conveyor to a 3,000 to 5,000 CY surge hopper. Aggregate is metered from the surge hopper, by conveyor, to the secondary crushing unit, which may either be a primary horizontal impact crusher, or a roller cone crusher. The secondary crusher crushes the aggregate to 2” minus. Conveyors then direct the aggregate to 3-deck sizing screens to split the aggregate stream into three different product sizes.

Any oversize aggregate not passing one of the three screen sizes is directed by conveyor to a tertiary crusher, which is either an impact crusher or a fine crushing, roller cone crusher. The aggregate from the tertiary crusher is then directed back up to the 3-deck screens in a closed circuit. The crushing plant is controlled by motor control circuitry located in the control tower manned by the crusher operator.

The finished products come out of the crushing plant and are conveyed or moved by loaders to the aggregate storage piles where they are stored until sold. When an order is placed for a



### **Drill Holes**

If drilling occurs, holes will be properly plugged and sealed as required in Section R647-4-108.

### **110.3. Surface Facilities to be left**

The access road will not be reclaimed after completion of mining. The surety bond does not include the cost of access road reclamation.

No structures will be left. All facilities will be reclaimed. Approximately 1.6 acres of two-track roads will be maintained in reclamation to allow access and monitoring of the reclaimed mine.

A list of structures to be reclaimed is included in the Demolition section of the Surety Calculations located in Appendix F.

All facilities will be demolished after salvaging metals and removing insulation, tile, etc. Concrete will be broken up and buried on site. Other materials will be hauled to a licensed landfill and disposed.

### **110.4. Treatment, location, and Disposition of Deleterious Material**

Potentially hazardous insulation, tile, and non-salvageable debris from demolition will be removed to a licensed landfill. All tanks will either be removed to a licensed landfill upon reclamation or sold. The surety calculations contained in Section 113 assume these items are disposed of at the Tooele County Landfill located south of Tooele on the Bouer Road.

All conveyors, crushers, screens, asphalt plant and other equipment used for mining and processing of aggregate will be removed upon reclamation or sold. The surety calculations contained in Section 113 assume these items are disposed of at the Western Metals Recycling Center in Salt Lake City.

### **110.5. Re-vegetation Planting Program and Topsoil Re-distribution**

After final shaping and grading of the quarry floor, concrete batch plant area, slopes, and roads within the disturbed area, surfaces will be ripped and/or scarified on the contour to relieve compaction.

### **Soil Material Replacement**

Topsoil and topsoil substitute material (described under Sub-section 109.3) will be spread on the quarry floor and plant areas using self loading scrapers to place soil, and



Globe mallow	<i>Sphaeralcea coccinea</i>	0.4
Rubber rabbitbrush	<i>Chrysothamnus nauseosus</i>	0.4
Forage kochia	<i>Kochia prostrata</i>	0.4
	<b>Total Rate to be Seeded</b>	<b>8.3</b>

## Seeding Method

All disturbed areas excepting the sump and steep slopes between benches will be seeded using a range-type drill seeder.

## Fertilization

Prior to spreading any topsoil or topdressing, stockpiles will be tested for organic matter, Nitrogen, Phosphorus, and Potassium. If these levels are low, 10 tons of composted manure per acre will be applied to the soil or topsoil substitute after it is spread. Soil amendment quantities will be approved by DOGM prior to application.

## Other Re-vegetation Procedures

None.

### R647-4-112 Variance

No variances are proposed with this application.

### R647-4-113 Surety

The reclamation surety calculations are contained in Appendix F. A summary of the estimated costs of reclamation for phase I is included below.

1. Demolition and removal of structures	\$241,618.00
2. Backfilling, grading, and contouring	\$295,023.00
3. Revegetation (preparation, seeding, mulching)	\$118,750.00
4. Subtotal Direct Costs	\$655,391.00
5. Mob/Demob	\$65,539.00
6. Contingency	\$32,770.00



7. Engineering Redesign	\$16,385.00
8. Main office Expense	\$44,567.00
9. Project Management Fee	\$16,385.00
10. Subtotal Indirect Costs	\$175,646.00
11. Escalation	\$19,584.00
12. Reclamation Costs Escalated	\$850,621.00
13. Bond Amount for 95 acre disturbance (rounded to nearest \$1,000)	\$851,000.00